Appl. No. 09/828,462   Attny Docket No. 3184
Amendment and Response to Office Action
October 17, 2006

AMENDMENTS TO THE CLAIMS

Kindly amend the claims as follows: Cancel claims 1-15. Add new claims 16-35.

Listing of Claims:

This listing of claims will replace all prior versions and listings of the claims in the application:

1-15 (cancelled).

16. (new): An ink jet print engine with Internet connectivity, comprising:

       printer hardware and software providing a functioning printer, including a piezoelectric printhead for dispensing ink onto a substrate; and

       Internet hardware and software for providing the print engine with Internet connectivity, including a microprocessor communicating with the printer hardware and software, the microprocessor comprising an embedded server having a valid IP address, said microprocessor also containing Ethernet MAC and system controllers;

       and wherein the printer software stores one or more valid IP addresses of servers corresponding to maintenance or service centers for one or more components of the print engine.

17. (new): The ink jet print engine of claim 16 wherein said printer hardware or software is capable of providing diagnostic information.

18. (new): The ink jet print engine of claim 16 wherein the system controllers include memory, DMA, interrupts and timers.

19. (new): The ink jet print engine of claim 16 wherein the microprocessor uses an RTOS operating system.

20. (new): The ink jet print engine of claim 16 wherein said printer contains integrated networking software.

21. (new): An ink jet print engine with Internet connectivity, comprising:

printer hardware and software providing a functioning printer, including a piezoelectric printhead for dispensing ink onto a substrate; and

Internet hardware and software for providing the print engine with Internet connectivity, including a microprocessor communicating with the printer hardware and software, the microprocessor comprising an embedded server having a valid IP address, said microprocessor also containing Ethernet MAC and system controllers;

and wherein the system controllers include memory, DMA, interrupts and timers.

22. (new): The ink jet print engine of claim 21 wherein the printer software stores one or more valid IP addresses of servers corresponding to maintenance or service centers for one or more components of the print engine.

23. (new): The ink jet print engine of claim 21 wherein said printer hardware or software is capable of providing diagnostic information.

24. (new): The ink jet print engine of claim 21 wherein the microprocessor uses an RTOS operating system.

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25. (new): The ink jet print engine of claim 21 wherein said printer contains integrated networking software.

26. (new): An ink jet print engine with Internet connectivity, comprising:

printer hardware and software providing a functioning printer, including a piezoelectric printhead for dispensing ink onto a substrate; and

Internet hardware and software for providing the print engine with Internet connectivity, including a microprocessor communicating with the printer hardware and software, the microprocessor comprising an embedded server having a valid IP address, said microprocessor also containing Ethernet MAC and system controllers;

and wherein said microprocessor gathers statistics concerning said printer device.

27. (new): The ink jet print engine of claim 26 wherein the printer software stores one or more valid IP addresses of servers corresponding to maintenance or service centers for one or more components of the print engine.

28. (new): The ink jet print engine of claim 26 wherein said printer hardware or software is capable of providing diagnostic information.

29. (new): The ink jet print engine of claim 26 wherein the microprocessor uses an RTOS operating system.

30. (new): The ink jet print engine of claim 26 wherein said printer contains integrated networking software.

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31. (new): An ink jet print engine with Internet connectivity, comprising:

    printer hardware and software providing a functioning printer, including a

piezoelectric printhead for dispensing ink onto a substrate; and

    Internet hardware and software for providing the print engine with Internet

connectivity, including a microprocessor communicating with the printer hardware

and software, the microprocessor comprising an embedded server having a valid

IP address, said microprocessor also containing Ethernet MAC and system

controllers;

    and wherein said microprocessor sends or receives Email from a remote

server.

32. (new): The ink jet print engine of claim 31 wherein said printer hardware or software is

capable of providing diagnostic information.

33. (new): The ink jet print engine of claim 31 wherein the printer software stores one or

more valid IP addresses of servers corresponding to maintenance or service centers for

one or more components of the print engine.

34. (new): The ink jet print engine of claim 31 wherein said Email is related to diagnostics.

35. (new): The ink jet print engine of claim 31 wherein said processor contains a real-time

operating system.